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TECH CENTER 1600/2900



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/849,869A

DATE: 03/20/2003

TIME: 16:08:26

#24

Input Set : A:\CALTE.004C1(CP1)revised.txt  
Output Set: N:\CRF4\03202003\I849869A.raw

4 <110> APPLICANT: Anderson, David J.  
 5 Dong, Xinzong  
 6 Zylka, Mark  
 7 Simon, Melvin  
 8 Han, Sang-kyou  
 10 <120> TITLE OF INVENTION: PAIN SIGNALING MOLECULES  
 13 <130> FILE REFERENCE: CALTE.004C1  
 15 <140> CURRENT APPLICATION NUMBER: US 09/849,869A  
 16 <141> CURRENT FILING DATE: 2001-05-04  
 18 <150> PRIOR APPLICATION NUMBER: US 60/222,344  
 19 <151> PRIOR FILING DATE: 2000-08-01  
 21 <150> PRIOR APPLICATION NUMBER: US 60/202,027  
 22 <151> PRIOR FILING DATE: 2000-05-04  
 24 <150> PRIOR APPLICATION NUMBER: US 09/704,707  
 25 <151> PRIOR FILING DATE: 2000-11-03  
 27 <150> PRIOR APPLICATION NUMBER: US 60/285,493  
 28 <151> PRIOR FILING DATE: 2001-04-19  
 30 <160> NUMBER OF SEQ ID NOS: 115  
 32 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 34 <210> SEQ ID NO: 1  
 35 <211> LENGTH: 1088  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Mus Musculus  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: CDS  
 41 <222> LOCATION: (115)...(1026)  
 43 <400> SEQUENCE: 1  
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 45 tttctagccc taaacacatc ggccctcgcca acagcaccca caacaactaa tcca atg 117  
 46 Met  
 47 1  
 49 gac aat acc atc cct gga ggt atc aac atc acg att ctg atc cca aac 165  
 50 Asp Asn Thr Ile Pro Gly Gly Ile Asn Ile Thr Ile Leu Ile Pro Asn  
 51 5 10 15  
 53 ttg atg atc atc atc ttc gga ctg gtc ggg ctg aca gga aat ggc att 213  
 54 Leu Met Ile Ile Phe Gly Leu Val Gly Leu Thr Gly Asn Gly Ile  
 55 20 25 30  
 57 gtg ttc tgg ctc ctg ggc ttc tgt ttg cac agg aac gcc ttc tca gtc 261  
 58 Val Phe Trp Leu Leu Gly Phe Cys Leu His Arg Asn Ala Phe Ser Val  
 59 35 40 45  
 61 tac atc cta aac tta gct cta gct gac ttc ttc ttc ctc cta ggt cac 309  
 62 Tyr Ile Leu Asn Leu Ala Leu Ala Asp Phe Phe Phe Leu Leu Gly His  
 63 50 55 60 65

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|     |       |            |           |            |           |            |            |     |     |     |     |     |     |     |     |     |      |
|-----|-------|------------|-----------|------------|-----------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 65  | atc   | ata        | gat       | tcc        | ata       | ctg        | ctt        | ctc | aat | gtt | ttc | tac | cca | att | acc | 357 |      |
| 66  | Ile   | Ile        | Asp       | Ser        | Ile       | Leu        | Leu        | Leu | Leu | Asn | Val | Phe | Tyr | Pro | Ile | Thr |      |
| 67  |       |            |           |            | 70        |            |            |     | 75  |     |     |     |     | 80  |     |     |      |
| 69  | ttt   | ctc        | ttg       | tgc        | ttt       | tac        | acg        | atc | atg | atg | gtt | ctc | tat | atc | gca | ggc | 405  |
| 70  | Phe   | Leu        | Leu       | Cys        | Phe       | Tyr        | Thr        | Ile | Met | Met | Val | Leu | Tyr | Ile | Ala | Gly |      |
| 71  |       |            |           | 85         |           |            |            | 90  |     |     | 95  |     |     |     |     |     |      |
| 73  | ctg   | agc        | atg       | ctc        | agt       | gcc        | atc        | agc | act | gag | cgc | tgc | ctg | tct | gtt | ctg | 453  |
| 74  | Leu   | Ser        | Met       | Leu        | Ser       | Ala        | Ile        | Ser | Thr | Glu | Arg | Cys | Leu | Ser | Val | Leu |      |
| 75  |       |            | 100       |            |           |            | 105        |     |     |     | 110 |     |     |     |     |     |      |
| 77  | tgc   | ccc        | atc       | tgg        | tat       | cac        | tgt        | cac | cgc | cca | gaa | cac | aca | tca | act | gtc | 501  |
| 78  | Cys   | Pro        | Ile       | Trp        | Tyr       | His        | Cys        | His | Arg | Pro | Glu | His | Thr | Ser | Thr | Val |      |
| 79  |       | 115        |           |            |           | 120        |            |     | 125 |     |     |     |     |     |     |     |      |
| 81  | atg   | tgt        | gtc       | atc        | tgg       | gtc        | ctg        | tcc | ctg | ttg | atc | tgc | att | ctg | aat |     | 549  |
| 82  | Met   | Cys        | Ala       | Val        | Ile       | Trp        | Val        | Leu | Ser | Leu | Ile | Cys | Ile | Leu | Asn |     |      |
| 83  | 130   |            |           |            | 135       |            |            |     | 140 |     |     | 145 |     |     |     |     |      |
| 85  | agt   | tat        | tcc       | tgc        | ggt       | ttc        | tta        | aat | acc | caa | tat | aaa | aat | gaa | aat | ggg | 597  |
| 86  | Ser   | Tyr        | Phe       | Cys        | Gly       | Phe        | Leu        | Asn | Thr | Gln | Tyr | Lys | Asn | Glu | Asn | Gly |      |
| 87  |       |            |           |            | 150       |            |            | 155 |     |     | 160 |     |     |     |     |     |      |
| 89  | tgt   | ctg        | gca       | ttg        | aac       | ttc        | ttt        | act | gct | gca | tac | ctg | atg | ttt | ttg | ttt | 645  |
| 90  | Cys   | Leu        | Ala       | Leu        | Asn       | Phe        | Phe        | Thr | Ala | Ala | Tyr | Leu | Met | Phe | Leu | Phe |      |
| 91  |       | 165        |           |            |           | 170        |            |     | 175 |     |     |     |     |     |     |     |      |
| 93  | gtg   | gtc        | ctc       | tgt        | ctg       | tcc        | agc        | ctg | gct | ctg | gtg | gcc | agg | ttg | ttc | tgt | 693  |
| 94  | Val   | Val        | Leu       | Cys        | Leu       | Ser        | Ser        | Leu | Ala | Leu | Val | Ala | Arg | Leu | Phe | Cys |      |
| 95  |       | 180        |           |            |           | 185        |            |     | 190 |     |     |     |     |     |     |     |      |
| 97  | ggt   | act        | ggg       | cag        | ata       | aag        | ctt        | acc | aga | ttg | tat | gtt | acc | att | att | ctg | 741  |
| 98  | Gly   | Thr        | Gly       | Gln        | Ile       | Lys        | Leu        | Thr | Arg | Leu | Tyr | Val | Thr | Ile | Ile | Leu |      |
| 99  |       | 195        |           |            |           | 200        |            |     | 205 |     |     |     |     |     |     |     |      |
| 101 | agc   | att        | ttg       | gtt        | ttt       | ctc        | ctt        | tgc | gga | ttg | ccc | ttt | ggc | atc | cac | tgg | 789  |
| 102 | Ser   | Ile        | Leu       | Val        | Phe       | Leu        | Leu        | Cys | Gly | Leu | Pro | Phe | Gly | Ile | His | Trp |      |
| 103 | 210   |            |           |            | 215       |            |            |     | 220 |     |     | 225 |     |     |     |     |      |
| 105 | ttt   | ctg        | tta       | ttc        | aag       | att        | aag        | gat | gat | ttt | cat | gtt | ttt | gat | ctt | gga | 837  |
| 106 | Phe   | Leu        | Leu       | Phe        | Lys       | Ile        | Lys        | Asp | Asp | Phe | His | Val | Phe | Asp | Leu | Gly |      |
| 107 |       | 230        |           |            |           | 235        |            |     | 240 |     |     |     |     |     |     |     |      |
| 109 | ttt   | tat        | ctg       | gca        | tca       | gtt        | gtc        | ctg | act | gct | att | aat | agc | tgt | gcc | aac | 885  |
| 110 | Phe   | Tyr        | Leu       | Ala        | Ser       | Val        | Val        | Leu | Thr | Ala | Ile | Asn | Ser | Cys | Ala | Asn |      |
| 111 |       | 245        |           |            |           | 250        |            |     | 255 |     |     |     |     |     |     |     |      |
| 113 | ccc   | atc        | att       | tac        | tcc       | ttc        | gtg        | gga | tcc | ttc | agg | cat | cgg | ttg | aag | cac | 933  |
| 114 | Pro   | Ile        | Ile       | Tyr        | Phe       | Phe        | Val        | Gly | Ser | Phe | Arg | His | Arg | Leu | Lys | His |      |
| 115 |       | 260        |           |            |           | 265        |            |     | 270 |     |     |     |     |     |     |     |      |
| 117 | cag   | acc        | ctc       | aaa        | atg       | gtt        | ctc        | cag | aat | gca | ctg | caa | gac | act | cct | gag | 981  |
| 118 | Gln   | Thr        | Leu       | Lys        | Met       | Val        | Leu        | Gln | Asn | Ala | Leu | Gln | Asp | Thr | Pro | Glu |      |
| 119 |       | 275        |           |            |           | 280        |            |     | 285 |     |     |     |     |     |     |     |      |
| 121 | aca   | gcc        | aaa       | atc        | atg       | gtg        | gag        | atg | tca | aga | agc | aaa | tca | gag | cca |     | 1026 |
| 122 | Thr   | Ala        | Lys       | Ile        | Met       | Val        | Glu        | Met | Ser | Arg | Ser | Lys | Ser | Glu | Pro |     |      |
| 123 | 290   |            |           |            | 295       |            |            |     | 300 |     |     |     |     |     |     |     | 1088 |
| 125 | tat   | gtatgaagag | ccttgcctg | gcccttagaa | gtggcttgg | ggtgagcatt | gccctgctgc |     |     |     |     |     |     |     |     |     | 1086 |
| 126 | ac    |            |           |            |           |            |            |     |     |     |     |     |     |     |     |     |      |
| 128 | <210> | SEQ        | ID        | NO:        | 2         |            |            |     |     |     |     |     |     |     |     |     |      |
| 129 | <211> | LENGTH:    | 304       |            |           |            |            |     |     |     |     |     |     |     |     |     |      |

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130 <212> TYPE: PRT  
 131 <213> ORGANISM: Mus Musculus  
 133 <400> SEQUENCE: 2  
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 135 1 5 10 15  
 136 Asn Leu Met Ile Ile Ile Phe Gly Leu Val Gly Leu Thr Gly Asn Gly  
 137 20 25 30  
 138 Ile Val Phe Trp Leu Leu Gly Phe Cys Leu His Arg Asn Ala Phe Ser  
 139 35 40 45  
 140 Val Tyr Ile Leu Asn Leu Ala Leu Ala Asp Phe Phe Leu Leu Gly  
 141 50 55 60  
 142 His Ile Ile Asp Ser Ile Leu Leu Leu Asn Val Phe Tyr Pro Ile  
 143 65 70 75 80  
 144 Thr Phe Leu Leu Cys Phe Tyr Thr Ile Met Met Val Leu Tyr Ile Ala  
 145 85 90 95  
 146 Gly Leu Ser Met Leu Ser Ala Ile Ser Thr Glu Arg Cys Leu Ser Val  
 147 100 105 110  
 148 Leu Cys Pro Ile Trp Tyr His Cys His Arg Pro Glu His Thr Ser Thr  
 149 115 120 125  
 150 Val Met Cys Ala Val Ile Trp Val Leu Ser Leu Leu Ile Cys Ile Leu  
 151 130 135 140  
 152 Asn Ser Tyr Phe Cys Gly Phe Leu Asn Thr Gln Tyr Lys Asn Glu Asn  
 153 145 150 155 160  
 154 Gly Cys Leu Ala Leu Asn Phe Phe Thr Ala Ala Tyr Leu Met Phe Leu  
 155 165 170 175  
 156 Phe Val Val Leu Cys Leu Ser Ser Leu Ala Leu Val Ala Arg Leu Phe  
 157 180 185 190  
 158 Cys Gly Thr Gly Gln Ile Lys Leu Thr Arg Leu Tyr Val Thr Ile Ile  
 159 195 200 205  
 160 Leu Ser Ile Leu Val Phe Leu Leu Cys Gly Leu Pro Phe Gly Ile His  
 161 210 215 220  
 162 Trp Phe Leu Leu Phe Lys Ile Lys Asp Asp Phe His Val Phe Asp Leu  
 163 225 230 235 240  
 164 Gly Phe Tyr Leu Ala Ser Val Val Leu Thr Ala Ile Asn Ser Cys Ala  
 165 245 250 255  
 166 Asn Pro Ile Ile Tyr Phe Phe Val Gly Ser Phe Arg His Arg Leu Lys  
 167 260 265 270  
 168 His Gln Thr Leu Lys Met Val Leu Gln Asn Ala Leu Gln Asp Thr Pro  
 169 275 280 285  
 170 Glu Thr Ala Lys Ile Met Val Glu Met Ser Arg Ser Lys Ser Glu Pro  
 171 290 295 300  
 174 <210> SEQ ID NO: 3  
 175 <211> LENGTH: 1234  
 176 <212> TYPE: DNA  
 177 <213> ORGANISM: Mus musculus  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: CDS  
 181 <222> LOCATION: (137)...(1051)  
 183 <400> SEQUENCE: 3

## RAW SEQUENCE LISTING

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Input Set : A:\CALTE.004C1 (CP1) revised.txt

Output Set: N:\CRF4\03202003\1849869A.raw

184 tctgtatcttt ccttctacac aagccagtga gctacatccca acaagaggat 60  
 185 tggggaaagc aatggtaag catttcttgc cttaagacc tcagcctcac caacagcacc 120  
 186 agtgacaaca aatcca atg gac gaa acc ctc cct gga agt atc aac att agg 172  
 187 Met Asp Glu Thr Leu Pro Gly Ser Ile Asn Ile Arg  
 188 1 5 10  
 189 att ctg atc cca aaa ttg atg atc atc atc ttc gga ctg gtc gga ctg 220  
 190 Ile Leu Ile Pro Lys Leu Met Ile Ile Ile Phe Gly Leu Val Gly Leu  
 191 15 20 25  
 192 194 atg gga aac gcc att gtg ttc tgg ctc ctg ggc ttc cac ttg cgc aag 268  
 195 Met Gly Asn Ala Ile Val Phe Trp Leu Leu Gly Phe His Leu Arg Lys  
 196 30 35 40  
 197 aat gac ttc tca ctc tac atc cta aac ttg gcc cgg gct gac ttc ctt 316  
 198 Asn Asp Phe Ser Leu Tyr Ile Leu Asn Leu Ala Arg Ala Asp Phe Leu  
 199 200 45 50 55 60  
 201 ttc ctc ctc agt agt atc ata gct tcc acc ctg ttt ctt ctc aaa gtt 364  
 202 Phe Leu Leu Ser Ser Ile Ile Ala Ser Thr Leu Phe Leu Leu Lys Val  
 203 204 65 70 75  
 205 tcc tac ctc agc atc atc ttt cac ttg tgc ttt aac acc att atg atg 412  
 206 Ser Tyr Leu Ser Ile Ile Phe His Leu Cys Phe Asn Thr Ile Met Met  
 207 208 80 85 90  
 209 gtt gtc tac atc aca ggg ata agc atg ctc agt gcc atc agc act gag 460  
 210 Val Val Tyr Ile Thr Gly Ile Ser Met Leu Ser Ala Ile Ser Thr Glu  
 211 212 95 100 105  
 213 tgc tgc ctg tct gtc ctg tgc ccc acc tgg tat cgc tgc cac cgt cca 508  
 214 Cys Cys Leu Ser Val Leu Cys Pro Thr Trp Tyr Arg Cys His Arg Pro  
 215 216 110 115 120  
 217 gta cat aca tca act gtc atg tgt gct gtg atc tgg gtc cta tcc ctg 556  
 218 Val His Thr Ser Thr Val Met Cys Ala Val Ile Trp Val Leu Ser Leu  
 219 220 125 130 135 140  
 221 ttg atc tgc att ctg aat agc tat ttc tgt gct gtc tta cat acc aga 604  
 222 Leu Ile Cys Ile Leu Asn Ser Tyr Phe Cys Ala Val Leu His Thr Arg  
 223 224 145 150 155  
 225 tat gat aat gac aat gag tgt ctg gca act aac atc ttt acc gcc tcg 652  
 226 Tyr Asp Asn Asp Asn Glu Cys Leu Ala Thr Asn Ile Phe Thr Ala Ser  
 227 228 160 165 170  
 229 tac atg ata ttt ttg ctt gtg gtc ctc tgt ctg tcc agc ctg gct ctg 700  
 230 Tyr Met Ile Phe Leu Leu Val Val Leu Cys Leu Ser Ser Leu Ala Leu  
 231 232 175 180 185  
 233 ctg gcc agg ttg ttc tgt ggc gct ggg cag atg aag ctt acc aga ttt 748  
 234 Leu Ala Arg Leu Phe Cys Gly Ala Gly Gln Met Lys Leu Thr Arg Phe  
 235 236 190 195 200  
 237 cat gtg acc atc ttg ctg acc ctt ttg gtt ttt ctc ctc tgc ggg ttg 796  
 238 His Val Thr Ile Leu Leu Thr Leu Leu Val Phe Leu Leu Cys Gly Leu  
 239 240 205 210 215 220  
 241 ccc ttt gtc atc tac tgc atc ctg tta ttc aag att aag gat gat ttc 844  
 242 Pro Phe Val Ile Tyr Cys Ile Leu Leu Phe Lys Ile Lys Asp Asp Phe  
 243 244 225 230 235  
 245 cat gta tta gat gtt aat ttt tat cta gca tta gaa gtc ctg act gct 892  
 246 His Val Leu Asp Val Asn Phe Tyr Leu Ala Leu Glu Val Leu Thr Ala  
 247 248

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|-----|---|-----|-----|------|
| 248 | 240   | 245 | 250 |      |
| 250 | att aac agc tgt gcc aac ccc atc atc tac ttc ttc gtg ggc tct ttc   |     |     | 940  |
| 251 | Ile Asn Ser Cys Ala Asn Pro Ile Ile Tyr Phe Phe Val Gly Ser Phe   |     |     |      |
| 252 | 255   | 260 | 265 |      |
| 254 | aga cat cag ttg aag cac cag acc ctc aaa atg gtt ctc cag agt gca   |     |     | 988  |
| 255 | Arg His Gln Leu Lys His Gln Thr Leu Lys Met Val Leu Gln Ser Ala   |     |     |      |
| 256 | 270   | 275 | 280 |      |
| 258 | ctg cag gac act cct gag aca gct gaa aac atg gta gag atg tca agt   |     |     | 1036 |
| 259 | Leu Gln Asp Thr Pro Glu Thr Ala Glu Asn Met Val Glu Met Ser Ser   |     |     |      |
| 260 | 285   | 290 | 295 | 300  |
| 262 | aac aaa gca gag cct tgatgaagag cctctacctg gacctcagag gtggcttgg    |     |     | 1091 |
| 263 | Asn Lys Ala Glu Pro   |     |     |      |
| 264 | 305   |     |     |      |
| 266 | agtgagcact gcccgtctgc acttgaccac tgtccactct tctctcagct tactgatttg |     |     | 1151 |
| 267 | acatgcctca gtggccacc aacaacttca acatctctcc actaacttag tttttctacc  |     |     | 1211 |
| 268 | cctcctgaat aaaaggatttca atc                                       |     |     | 1234 |
| 270 | <210> SEQ ID NO: 4  |     |     |      |
| 271 | <211> LENGTH: 305   |     |     |      |
| 272 | <212> TYPE: PRT   |     |     |      |
| 273 | <213> ORGANISM: Mus musculus                                      |     |     |      |
| 275 | <400> SEQUENCE: 4   |     |     |      |
| 276 | Met Asp Glu Thr Leu Pro Gly Ser Ile Asn Ile Arg Ile Leu Ile Pro   |     |     |      |
| 277 | 1   | 5   | 10  | 15   |
| 278 | Lys Leu Met Ile Ile Ile Phe Gly Leu Val Gly Leu Met Gly Asn Ala   |     |     |      |
| 279 | 20  | 25  | 30  |      |
| 280 | Ile Val Phe Trp Leu Leu Gly Phe His Leu Arg Lys Asn Asp Phe Ser   |     |     |      |
| 281 | 35  | 40  | 45  |      |
| 282 | Leu Tyr Ile Leu Asn Leu Ala Arg Ala Asp Phe Leu Phe Leu Leu Ser   |     |     |      |
| 283 | 50  | 55  | 60  |      |
| 284 | Ser Ile Ile Ala Ser Thr Leu Phe Leu Leu Lys Val Ser Tyr Leu Ser   |     |     |      |
| 285 | 65  | 70  | 75  | 80   |
| 286 | Ile Ile Phe His Leu Cys Phe Asn Thr Ile Met Met Val Val Tyr Ile   |     |     |      |
| 287 | 85  | 90  | 95  |      |
| 288 | Thr Gly Ile Ser Met Leu Ser Ala Ile Ser Thr Glu Cys Cys Leu Ser   |     |     |      |
| 289 | 100   | 105 | 110 |      |
| 290 | Val Leu Cys Pro Thr Trp Tyr Arg Cys His Arg Pro Val His Thr Ser   |     |     |      |
| 291 | 115   | 120 | 125 |      |
| 292 | Thr Val Met Cys Ala Val Ile Trp Val Leu Ser Leu Leu Ile Cys Ile   |     |     |      |
| 293 | 130   | 135 | 140 |      |
| 294 | Leu Asn Ser Tyr Phe Cys Ala Val Leu His Thr Arg Tyr Asp Asn Asp   |     |     |      |
| 295 | 145   | 150 | 155 | 160  |
| 296 | Asn Glu Cys Leu Ala Thr Asn Ile Phe Thr Ala Ser Tyr Met Ile Phe   |     |     |      |
| 297 | 165   | 170 | 175 |      |
| 298 | Leu Leu Val Val Leu Cys Leu Ser Ser Leu Ala Leu Leu Ala Arg Leu   |     |     |      |
| 299 | 180   | 185 | 190 |      |
| 300 | Phe Cys Gly Ala Gly Gln Met Lys Leu Thr Arg Phe His Val Thr Ile   |     |     |      |
| 301 | 195   | 200 | 205 |      |
| 302 | Leu Leu Thr Leu Leu Val Phe Leu Leu Cys Gly Leu Pro Phe Val Ile   |     |     |      |
| 303 | 210   | 215 | 220 |      |

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L:5310 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:5313 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:114